## **EAST Search History**

## **EAST Search History (Prior Art)**

| Ref<br># | Hits   | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|----------|--------|---|---|---------------------|---------|---------------------|
| L1       | 221    | (christopher near cline) or (edward near yarmchuk) or (vincent near arena) or (donald near merte) or (thomas near picunko) or (brian near wojszynski) or (charles near hendricks) or (michael near scaman) or (robert near olyha) or (arnold near halperin) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/05/18<br>14:01 |
| L2       | 2      | 1 and ionization source   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/05/18<br>14:02 |
| L3       | 372128 | (IBM or international<br>business machine<br>\$1)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/05/18<br>14:03 |
| L5       | 146    | 3 and ionization source   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/05/18<br>14:03 |
| L6       | 149    | 1 and 3   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/05/18<br>14:03 |

| L7 | 103 | 5 and substrate   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/05/18<br>14:04 |
|----|-----|---|---|-----|----|---------------------|
| L8 | 79  | 7 and probes  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/05/18<br>14:04 |
| L9 | 100 | (US-20070108984- \$).did. or (US- 5347212-\$ or US- 6954078-\$ or US- 5472337-\$ or US- 3603949-\$ or US- 3667675-\$ or US- 3705478-\$ or US- 3719829-\$ or US- 3753152-\$ or US- 3832055-\$ or US- 3866572-\$ or US- 3900000-\$ or US- 3916214-\$ or US- 3944876-\$ or US- 3944876-\$ or US- 3944876-\$ or US- 4038649-\$ or US- 4042856-\$ or US- 4091364-\$ or US- 4119840-\$ or US- 4132925-\$ or US- 4221185-\$).did. or (US-4229080-\$ or US-4243917-\$ or US- 4221185-\$).did. or (US-4229080-\$ or US-4243917-\$ or US- 4321507-\$ or US- 4321507-\$ or US- 4364031-\$ or US- | US-PGPUB;<br>USPAT  | ADJ | O  | 2010/05/18 14:05    |

| 4949017-\$ or US-    |  |   |
|----------------------|--|---|
| 5001496-\$ or US-    |  |   |
| 5053624-\$ or US-    |  |   |
| 5077770-\$ or US-    |  |   |
| 5087820-\$ or US-    |  |   |
|                      |  |   |
| 5089745-\$ or US-    |  |   |
| 5095217-\$ or US-    |  |   |
| 5147423-\$ or US-    |  |   |
| 5179497-\$ or US-    |  |   |
| 5247420-\$ or US-    |  |   |
| 5270619-\$ or US-    |  |   |
| 5276378-\$ or US-    |  |   |
| 5289921-\$ or US-    |  |   |
| 5305338-\$).did. or  |  |   |
| (US-5319518-\$ or    |  |   |
| US-5337330-\$ or US- |  |   |
| 5338938-\$ or US-    |  |   |
| 1                    |  |   |
| 5393975-\$ or US-    |  |   |
| 5403383-\$ or US-    |  |   |
| 5454003-\$ or US-    |  |   |
| 5506431-\$ or US-    |  |   |
| 5530249-\$ or US-    |  |   |
| 5627815-\$ or US-    |  |   |
| 5739640-\$ or US-    |  |   |
| 5777338-\$ or US-    |  |   |
| 5887233-\$ or US-    |  |   |
| 5952600-\$ or US-    |  |   |
| 5993521-\$ or US-    |  |   |
| 6145298-\$ or US-    |  |   |
| 6175120-\$ or US-    |  |   |
| 6452338-\$ or US-    |  |   |
| 6566887-\$ or US-    |  |   |
| 6571125-\$ or US-    |  |   |
| 6600804-\$ or US-    |  |   |
| 6632723-\$ or US-    |  |   |
| 6691927-\$ or US-    |  |   |
| 6732059-\$ or US-    |  |   |
| 6785114-\$ or US-    |  |   |
| 6827824-\$ or US-    |  |   |
| 6828552-\$ or US-    |  |   |
| 6838201-\$).did. or  |  |   |
|                      |  |   |
| (US-6850403-\$ or    |  |   |
| US-6903977-\$ or US- |  |   |
| 6924455-\$ or US-    |  |   |
| 6969851-\$ or US-    |  |   |
| 7081618-\$ or US-    |  |   |
| 7151016-\$ or US-    |  |   |
| 7180243-\$ or US-    |  |   |
| 7193222-\$ or US-    |  |   |
| 7212393-\$ or US-    |  |   |
| 7273516-\$ or US-    |  |   |
| 7291845-\$ or US-    |  |   |
| 7336474-\$ or US-    |  |   |
| 7385188-\$ or US-    |  |   |
| 7464777-\$ or US-    |  | 1 |

|       | 7465920-\$ or US-<br>7467598-\$ or US-<br>7583530-\$ or US-<br>7652910-\$ or US-<br>7709787-\$).did.   |                    |     |   |                  |
|-------|--|--------------------|-----|---|------------------|
| L10 1 | (US-20070108984-\$ or US-20020068449-\$).did. or (US-6148660-\$ or US-4258261-\$ or US-4410934-\$ or US-6051114-\$ or US-4286157-\$ or US-4289135-\$ or US-4488045-\$ or US-5307234-\$ or US-5341063-\$ or US-5341063-\$ or US-5739640-\$ or US-5739640-\$ or US-5969353-\$ or US-5983828-\$ or US-6204607-\$ or US-6204607-\$ or US-6208030-\$ or US-6208030-\$ or US-6391776-\$ or US-6162652-\$ or US-6162652-\$ or US-6162652-\$ or US-6162652-\$ or US-63916715-\$ or US-6072192-\$ or US-6118137-\$ or US-6072192-\$ or US-6118137-\$ | US-PGPUB;<br>USPAT | ADJ | O | 2010/05/18 14:05 |

| S                    | 96 |   | <br>. 5                                 |
|----------------------|----|---|---|
| 4552998-\$ or US-    |    |   |   |
| 4561711-\$ or US-    |    |   |   |
| 4564251-\$ or US-    |    |   |   |
| 4768972-\$ or US-    |    |   |   |
| 4783625-\$ or US-    |    |   |   |
| 4806848-\$ or US-    |    |   |   |
| 4827737-\$).did. or  |    |   |   |
| (US-4830832-\$ or    |    |   |   |
| US-4838799-\$ or US- |    |   |   |
| 4857828-\$ or US-    |    |   |   |
| 4866375-\$ or US-    |    |   |   |
| 4878018-\$ or US-    |    |   |   |
| 4886163-\$ or US-    |    |   |   |
| 4942358-\$ or US-    |    |   |   |
| 4973256-\$ or US-    |    |   |   |
| 4989082-\$ or US-    |    |   |   |
| 5020087-\$ or US-    |    |   |   |
| 5025466-\$ or US-    |    |   |   |
| 5026301-\$ or US-    |    |   |   |
| 5258648-\$ or US-    |    |   |   |
| 5291124-\$ or US-    |    |   |   |
| 5307561-\$ or US-    |    |   |   |
| 5331283-\$ or US-    |    |   |   |
| 5337216-\$ or US-    |    |   |   |
| 5354099-\$ or US-    |    |   |   |
| 5354205-\$ or US-    |    | *************************************** |   |
| 5357194-\$ or US-    |    |   |   |
| 5378982-\$ or US-    |    | "                                       |   |
| 5383136-\$ or US-    |    |   |   |
| 5406829-\$ or US-    |    |   |   |
| 5500605-\$ or US-    |    |   |   |
| 5513160-\$ or US-    |    |   |   |
| 5521567-\$ or US-    |    |   |   |
| 5543724-\$).did. or  |    |   |   |
| (US-5552718-\$ or    |    |   |   |
| US-5556808-\$ or US- |    |   |   |
| 5585739-\$ or US-    |    |   |   |
| 5599047-\$ or US-    |    |   |   |
| 5602492-\$ or US-    |    |   |   |
| 5612919-\$ or US-    |    |   |   |
| 5617340-\$ or US-    |    |   |   |
| 5620795-\$ or US-    |    |   |   |
| 5623214-\$ or US-    |    | "                                       |   |
| 5648891-\$ or US-    |    |   |   |
| 5670883-\$ or US-    |    |   |   |
| 5672979-\$ or US-    |    |   |   |
| 5675074-\$ or US-    |    |   |   |
| 5684301-\$ or US-    |    | annua .                                 |   |
| 5699282-\$ or US-    |    |   |   |
| 5709336-\$ or US-    |    | annua .                                 | *************************************** |
| 5712571-\$ or US-    |    |   |   |
| 5736863-\$).did.     |    |   |   |
| χο, σοσσο ψη, αια.   | i  |   | <br>                                    |
|                      |    |   |   |

| L11 | 1   | 1 and 9  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ   | ON | 2010/05/18<br>14:05 |
|-----|-----|--|---|---|----|---------------------|
| L12 | 1   | 1 and 10   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT; |    | 2010/05/18<br>14:06 |
| L13 | 10  | 3 and 10   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ   | ON | 2010/05/18<br>14:06 |
| L14 | 6   | 3 and 9  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ   | ON | 2010/05/18<br>14:06 |
| L15 | 9   | 9 and ionization<br>source                                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ   | ON | 2010/05/18<br>14:06 |
| L16 | 3   | 10 and ionization<br>source                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ   | ON | 2010/05/18<br>14:06 |
| L17 | 217 | ((non-contact or non<br>contact) near4<br>substrate).ti.       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ   | ON | 2010/05/18<br>14:09 |
| L18 | 3   | 17 and (ionizat\$3 or<br>conduct\$3 near2<br>(wire or ribbon)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ   | ON | 2010/05/18<br>14:10 |

| L19 | 2146 | ((non-contact or non<br>contact) near4<br>substrate) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/05/18<br>14:11 |
|-----|------|--|---|-----|----|---------------------|
| L20 | 53   | 3 and 19   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/05/18<br>14:12 |
| L21 | 2    | 20 and ionization source                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ |    | 2010/05/18<br>14:12 |
| L22 | 62   | 19 and "324"/\$.ccls.                                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/05/18<br>14:18 |

## **EAST Search History (Interference)**

| Ref # | Hits   | Search Query  | DBs            | Default<br>Operator | Plurals | Time Stamp       |
|-------|--------|---|----------------|---------------------|---------|------------------|
| L23   | 151    | (christopher near cline) or (edward near yarmchuk) or (vincent near arena) or (donald near merte) or (thomas near picunko) or (brian near wojszynski) or (charles near hendricks) or (michael near scaman) or (robert near olyha) or (arnold near halperin) | USPAT;<br>UPAD | ADJ                 |         | 2010/05/18 14:47 |
| L24   | 154963 | (IBM or international business machine \$1)   | USPAT;<br>UPAD | ADJ                 | ON      | 2010/05/18 14:48 |

| L25 | 101 | 23 and 24  | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:48 |
|-----|-----|--|----------------|-----|----|------------------|
| L26 | 0   | 25 and ionization source   | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:48 |
| L27 | 49  | 25 and substrate   | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:49 |
| L28 | 99  | "Term Removed" or<br>"Term Removed" or<br>"Term Removed" or<br>"Term Removed" or<br>"Term Removed" | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:49 |
| L29 | 98  | "Term Removed" or<br>"Term Removed" or<br>"Term Removed" or<br>"Term Removed" or<br>"Term Removed" | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:49 |
| L30 | 82  | 24 and ionization source   | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:50 |
| L31 | 59  | 30 and substrate   | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:50 |
| L32 | 7   | ((non-contact or<br>non contact) near4<br>substrate).ti.   | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:50 |
| L33 | 644 | ((non-contact or<br>non contact) near4<br>substrate)   | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:51 |
| L34 | 41  | 33 and "324"/\$.ccls.  | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:51 |
| L35 | 0   | 33 and ionization source   | USPAT;<br>UPAD | ADJ | ON | 2010/05/18 14:51 |

## 5/18/10 2:57:05 PM

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